



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 85 ENTRY YEAR: 2008

Compartment Acreage: 1002

County: Gladwin

Revision Date: October 2006

Stand Examiner: Steven Nyhoff

Legal Description: T17N R2E, Sec. 20, 29, and 32

RMU (if applicable):

Management Goals:

The compartment has two major timber types, aspen and swamp hardwoods. The aspen has been actively managed in the past 30 years and now most of it is below 30 years old. The aspen stands that are now over 50 are found in low wet ground mixed with swamp hardwood. Most of these areas should be converted to swamp hardwoods.

Therefore, continue to manage the aspen on the more productive sites. However, on the wetter sites where aspen is mixed with swamp hardwood, convert the stands to swamp hardwoods.

Soil and Topography:

The soils in the compartment range from well-drained Rubicon sand to very poorly drain Roscommon sand. The terrain in the compartment is dominated by knoll and swale topography and all the stands have some mix of upland and lowland types. The cover type mapping and soil calls were based on the major soil type in a stand. Most stands have multiple soil types under them.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The state land is in three separate blocks separated by private land. There are other state ownerships in the surrounding compartments. Compartment 85 is surrounded by 7 other compartments.

The private land in the area is used for a variety of activities from recreational properties, to year round residences and some farming.

Unique, Natural Features (include only non-site specific and non-sensitive information):

There are no know occurrences and none were located during the OI process. There are records of eagles to the west and to the south west of section 32.

Archeological, Historical, and Cultural Features

There are no know occurrences and none were located during the OI process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

No fishery considerations for the compartment beside minimal set back from Herner Drain.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of an end moraine of fine-textured till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the Glacial Drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. Bentley Field is located in Sections 20 and 29. The field, discovered in 1937, has produced over 3 MBO from the Devonian Richfield Formation and still has active wells. There are a few old State oil and gas leases in the compartment.

Vehicle Access:

Access to the compartment is good having county roads touching one or more sides of each of the separate blocks. Also, with the oil development, there is an extensive road system in much of the compartment.

Survey Needs:

There are possible trespasses in section 20 that could not be positively identified because of lack of survey information, so survey is needed for that section.

Recreational Facilities and Opportunities:

The Midland to Mackinaw Hiking Trail goes through the west side of the compartment in section 29 and 32. The compartment is heavily used for hunting of small and large game.

Fire Protection:

Sour gas wells are present throughout the compartment. Because of these activities, there are numerous two tracks in the compartment. Many of these two tracks are heavily used both by the oil companies and by the public. In addition, the hunting public and dispersed campers use the area extensively. Therefore, the potential for fire starts is high.

Additional Compartment Information:

There is a major hazard in the compartment from the oil activity, because of the age of the leases many of the flow lines from the wells are on the surface. Any activity in the area, whether for logging or fire, will have to be careful not to damage these lines. Many of them carry some amount of sour gas along with oil.

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 85

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																Total	
		0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159		All Aged
Aspen		77	185	186	35	63		18		27									591
Bog or Marsh	6																		6
Grass	10																		10
LowInd Brush	39																		39
LowInd Poplr				51		10													61
Marsh	41																		41
Non Stocked	1																		1
Oak										4									4
Swamp Hrdwds		21		54		31			40	80						8		4	238
Upland Hdwds		6		5															11
Total	97	104	185	296	35	104		18	40	111						8		4	1002

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AUSABLE STATE FOREST

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GLADWIN COUNTY

COMPARTMENT: 85

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	533						13													45							591
V Bog or Marsh			6																								6
G Grass					10																						10
L LowInd Brush									39																		39
P LowInd Poplr										61																	61
N Marsh											41																41
X Non Stocked													1														1
O Oak														4													4
E Swamp Hrdwds																				238							238
M Upland Hdwds																								11		11	
Total	533		6		10		13		39	61	41		1	4						283					11		1002

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **85**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3585 Cds	Hardwood	574 Cds
Hardwood	720 Mbf	Hardwood	245 Mbf
Sum TotVol	5025 Cds	Sum CutVol	1064 Cds
Total Cmpt Acres		Acres Proposed For Cut.....	
1002		119	

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 85

Entry Year: 2008

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
14	A5	27	80	60	swamp hardwoods	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : There appears to be a sign tresspass so a survey is needed. The stand is undulating having dry knolls and ridges mixed with depressions and swales. Aspen is way over mature, low quality, and low vigor. Harvest the aspen and convert the stand to swamp hardwoods. The stand is expected to regenerate naturally to swamp hardwood mixed with some aspen.										
24	E6	27	84	52	swamp hardwoods	mature	delayed removal	2		
comnts Fmd : The stand is undulating from dry knolls and wet swales. The stand does have area of standing water in the spring but looks to dry out in late summer. Harvest by removing aspen may need to mark other trees to facilitate harvest, keep the BA up to around 80.										
30	E6	18	44	60	swamp hardwoods	mature	selection	2	natural regeneration	
comnts Fmd : Stand is a mix of knolls and swales. The knolls are heavy to aspen and the swales heavy to swamp hardwoods. Harvest but removing the aspen.										
38	E9	13	78	65	swamp hardwoods	mature	selection	1	natural regeneration	
comnts Fmd : The stand is made up of two ridges on either side of a low wet swale. The aspen in the stand is way overmature and if harvested it is questionable if it would regenerate. Harvest the stand by removing all the aspen leaving all other species and in areas of high density after the aspen is removed thin down to 80 BA.										
44	A2	28	7	55	aspen (upland)	immature		0	planting	
comnts Fmd : The stand has regenerated as a patchy A2 with lots of open areas. The patches are A3 and the opening are G-types. May want to plant the opening to jack pine when stand 144 is being interplanted.										
48	A5	18	61	55	swamp hardwoods	mature	shelterwood-seed	2	natural regeneration	
comnts Fmd : The stand is undulating with high dry ridges and low wet swales. The stand could be clearcut but regeneration would be questionable because of the aspen vigor and higher water table through out much of the stand. The stand currently has excelent advanced red maple regeneration and may have poles in 10 years. Prefered harvest method is to remove aspen.										
125	A6	16	45	65	aspen (upland)	immature	final harvest	1		
comnts Fmd : The stand is a broad ridge with some low land pockets with in the stand the soil are very variable under the stand. Clear cut the stand early to help out the aspen age class distribution in the stand.										
144	A1	13	7	50	jack pine	immature		0	planting	
comnts Fmd : This is part of stand 44 that is in a depression and did not regenerate. Plant the stand to jack pine because it is a moist site to bring the stand up to full stocking.										
Total Acres.....		160								

**Proposed Treatments
With Limiting Factors**

Compartment: 85

Entry Year: 2008

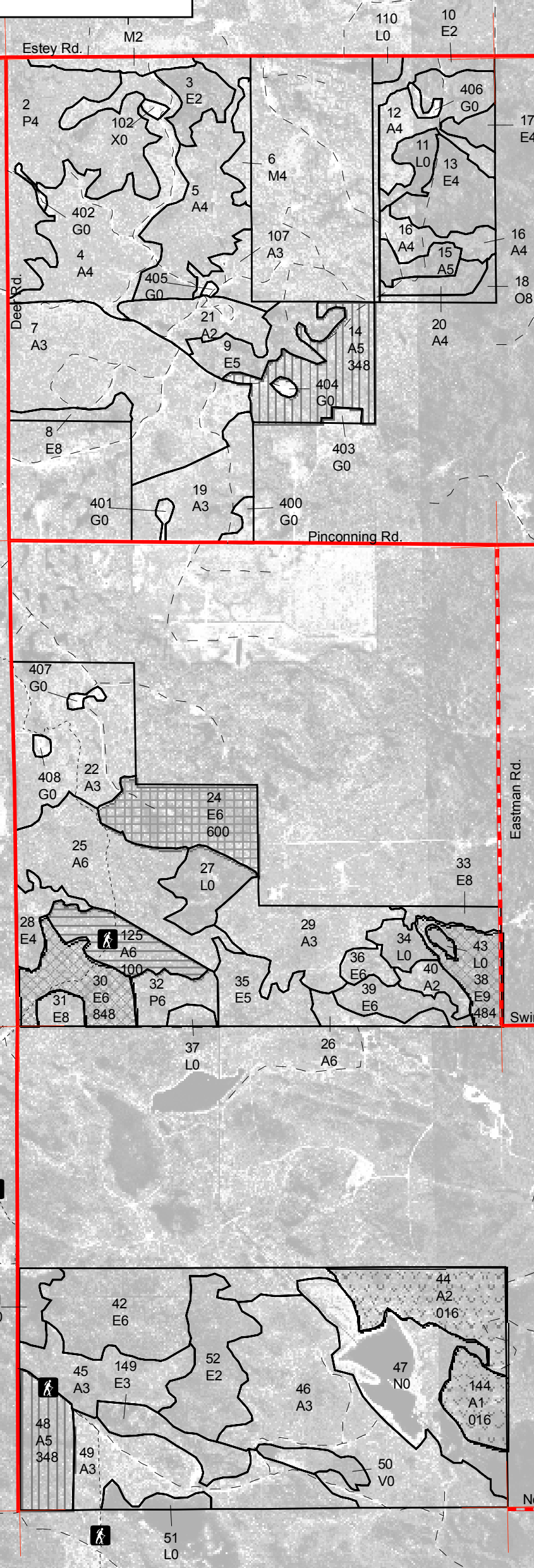
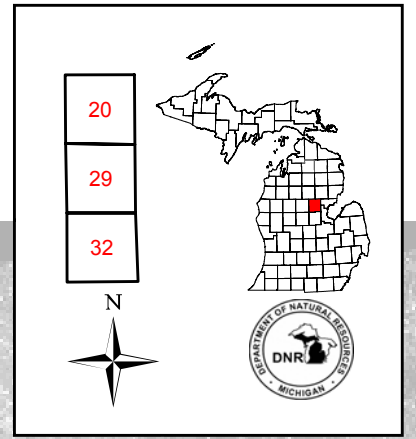
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 85
 T17N, R2E, Sec. 20, 29, 32
 County: Gladwin
 Unit: Gladwin
 YOE: 2008
 Acres: 1002 GIS Calculated
 Stand Examiner: Steve Nyhoff
 Map Revised: 10/26/2006
 Map Phase: Pre-review

Field Map



Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Trails
- Hiking Trails
- Stand Boundary
- 016 - Planting
- 100 - Final harvest
- 348 - Shelterwood-seed/Natural Regeneration/Other
- 600 - Delayed removal
- 848 - Selection/Natural regeneratio/Other

